

MEETING NOTICE: The Pikes Peak Radio Amateur Association will meet this month on October 11 at 7:30 pm at the Security Savings and Loan Association Building, East Platte at Union. Anyone interested in amateur radio is invited to attend. Election of club officers will take place, and all members are encouraged to participate in this.

CHEYENNE MOUNTAIN SWAP FEST: See enclosed flyer.

BOULDER SWAP FEST: (Boulder Amateur Radio Club). At the Boulder Armory, 4750 N. Broadway, starting at 9 am. (from BARC'S BARK via Boulder QSP) (Oh--it's October 29.)

SPEAKING OF ELECTIONS, and hoping you will have time to glance at this before the meeting (since I'm running later than my usual lateness) the club Nominating Committee is making these nominations for club officers: Dave Vierling NØDV for President; Art Mayer WAØAEH for Vice-President; Dave Riese WBØSDW for Treasurer; and for the office of Secretary, the delegate from the Green Mountain Radio Society, Lorna Schlueter WDØBTF. Nominations will be accepted from the floor, of course, but the person nominated must be there to accept or have the chance to reject the nomination, unless he has expressed his/her willingness to serve to a board member. And if the board needs to be brought up to eight members following the officer elections, the Nomination Committee suggests the following: Freiler WBØPAJ, and Andy Bistline, WBØZSL.

THE NEW SCM IS ONE OF US. Club member Bob Poirier KØDJ has taken over for Clyde Penney WAØHLQ as the Section Communications Manager for Colorado. It's a big job, involving appointing people as Section and local Emergency Coordinators, awarding and monitoring ARRL station appointments (OPS, ORS, OBS, OO, etc.), and basically keeping tabs on all the public service ham radio activity in the state. Bob is no newcomer to ham radio, and I don't think he's ever not been heavily involved in public service. He and Mike KØTER were responsible for my upbringing in the traffic field and did an excellent job, considering what they had (or didn't have) to work with. Let's give Bob all the help we can, mainly by providing friendly input to help him be tuned in to the activity around the state. Anything we hear from around the state regarding public service and hamming in general will help him do a job that will benefit all of us. So pass it on (as friends). He's only a local call away.

-1-

PPRAA DIRECTORS

PRESIDENT	Ray Uberecken AAØL, 9635 Thoroughbred (Blk Forest)	495-3544
VICE-PRES.	Doug Moloney WBØMHP, 3817 Vaquero Cir So	599-9605
SECRETARY	Gordon Denno WBØTIC, 4718 El Camino	598-0408
TREASURER		684-2153
Board Member	Dick Cohen K6DBR, 4965 Brown Valley Lane	599-5645
Board Member	Dave Allen WBØTAQ, 821 N. Cascade	471-0642
Board Member	Mike Stansberry KØTER, 2732 E. Monument	475-8650
Board Member	Oak Stockton KØROL, 2023 Essex Lane	596-1395

 $\overline{\text{Peak}}$ $\overline{\text{Radio}}$ is published monthly in the interest of the members of the Pikes $\overline{\text{Peak}}$ $\overline{\text{Radio}}$ Amateur Assn Inc, Colorado Springs, CO. Permission is granted to reprint articles or excerpts provided full credit is given.

Editor:
Dave Allen WBØTAQ Ed Pompea KØZPG
821 N. Cascade 2111 Trent Ave.
Co Spgs, CO 80903 Co Spgs, CO 80909
471-0642 635 7554



The PPRAA meets at 7:30pm on the Second Wednesday of each month in the Security Savings and Loan Building, East Platte at Union Blvd.

THE ABOVE LIST SUBJECT TO CHANGE AT THIS MONTH'S MEETING ...

SEPTEMBER MINUTES: AAØL Ray Uberecken openned the September meeting of the PPRAA at 7:35 pm at Security Savings and Loan. Membership and guest introductions followed. Approximately 65 hams were present [plus 3 pork chops and several wild geese]. The August minutes were approved as printed in Zero Beat [proving no one actually read them]. WBØPNX Dick Schlueter stated the treasury balance was \$469.74 [he blew a clutch and a tire on the way to Acapulco and didn't make it].

COMMITTEE REPORTS: Pikes Peak Motorcycle Riders Enduro--NØDV indicated the trail this year would be 110 miles. Over 400 entrants were expected. PPRAA provided hams for communications. PR--WBØMHP Doug Moloney requested hams to provide communications for the Volksmarches at Ft. Carson on Sept 30, Oct 1, Oct 7, and Oct 14. EDUCATION--MHP Novice classes would begin Sept 19 at North Jr High and run for six weeks only. Upon completion, the upgrading classes would begin so novices could continue on into the upgrade classes. MISC--MHP A watch would be raffled at the annual Christmas party. Chances are \$1, or six for \$5. WBOSDW Dave Riese is the watch raffle chairman. The watch was donated by ABØF Bob Keller. Thanks, Bob. RFI--AAØL Ray Uberecken reported the resolution of several complaints in expensive stereo systems. He said the committee would work on a large non-ham complaint. Possible pulsed radar. CCARC--WØRNT Chuck Myers. The October CCARC meeting would be in Denver.

No Unfinished business. Possible new novice band privileges were generally discussed. It was brought up that a proposal was going into ARRL that novices be given phone privileges on 220 Mhz. No conclusions, AAØL summarized the Leadfood Corvette Races south of Colorado Springs. AAØL, KØTER, NØDV, and WBØTIC provided communications. [You sure that isn't Leadfoot??] Zero Beat mailing list is being updated. Please get all changes twb@TAQ or WB@TIC or WB@PNX. W@RNT Chuck Myers was asked to look into a place for the Christmas Party. [He's looked into several, and isn't sober yet.—Oooo. Sorry Chuck.] CMARC Swap Fest Oct 15 at Reserve Armory off I-25. (Continued forthwith on the proximate page.)

MINUTES Con'd: AAØL indicated the Central States VHF Society Convention would be held in Colorado Springs in 1980. [PS--That's no backyard deal, and will be a really neat event for all who can be involved with Ray in it.] October is club elections again. See Sept and Oct Zero Beats for details.

AAØL and WBØMHP presented a basic and understandable program on RTTY. Meeting adjourned at 10 pm.

> Gordon Denno WBØTIC, Secretary

CLASSES for novices are underway at North Jr. High. They will end and upgrading classes start on November Hmm. Maybe we should have two levels of upgrading classes. Let us know your needs/desires.

TAQ, Ed. Committee

A.E.S. Communications

404 Arrawanna Colo. Springs, Colo. 80909

475-7050

KDK

* AMPHENOL

. DENTRON * CUSHCRAFT

* ASTATIC

* AMECO BOOKS * ARRL BOOKS

HUSTLER

VHF ENGINEERING

HAM KEY

. NYE VIKING

* TEMPO

· WILSON

* TAB BOOKS

LOW PRICES ON HT'S - PACKAGE DEALS INCLUDING XTALS & NICADS FROM \$235.20 EDGECOM 2 METER RIGS NOW IN STOCK

DAVE WOOCDU . TON WOMENN + JERA NOAGT

HAMS AID MAST LANDING On September 24 bad luck fell on one of the motor-

sycle enduro riders when a broken leg downed him between checkpoints two and chree during the Pikes Peak Motorcycle Riders Assn enduro.

accident occured in an area accessible only by motorcycle, helicopter, or on foot. A blanket was sent in from checkpoint two by motorcycle, and about an hour later a doctor arrived at the scene, also by cycle. Communication with the scene was word of mouth via the cycle riders.

Dave Vierling NØDV left checkpoint three and rode to the scene, but since he had been unable to locate an HT to take with him, he returned to the checkpoint where a radio was set up to coordinate the MAST rescue.

Efforts to find the accident scene from the air started looking hopeless since there was no direct communication at the scene. Mike Stansberry KØTER, completing his checkpoint assignment, was then taken by motorcycle to the scene, equipped with his HT.

Doug Moloney WBØMHP and Dave NØDV proceeded to the nearest road to the scene to relay for Mike, and Hal Etheridge WBØRER and Gordy Denno WBØTIC proceeded to the Teller County Sheriff's Office to provide a link between the ham radio at the scene and the SAR radio aboard the MAST chopper. This accomplished, location and landing instructions could be given. The already two-hour long rescue attempt was soon to be a completed success. From the time Mike KØTER arrived at the scene to the arrival of MAST at Penrose Community Hospital, only 40 minutes passed, thus ending a six-hour wait by the downed cyclist.

Instructions between the scene of the accident and the hospital were also relayed by amateur radio through Mike, Doug, Hal, and Gordy. Doug Moloney, WBØMHP

TRUE STORY: An Ohio ham was off in the boonies with his wife demonstrating how far his 2-meter rig would reach. [Don't ask me why he was off in the boonies with his wife and wasting his time on two meters.] He pointed out that if he had forty meters he could talk to hams much farther away.

"Well," came the response, "if you can talk farther away just by having forty meters on your radio, go ahead and buy yourself a radio with that many TNX, Lake Erie AMA meters!"

RTTY JOURNAL has recently published the second edition of "The Beginners RTTY Handbook." If you are interested in getting started on RTTY this is the best information source book. The price is \$4.50--RTTY Journal, P O Box RY, Cardiff by the Sea, CA 92007. Also, Denver simplex RTTY is on 147.570 MHz if anybody is beaming up that far.

TNX, Rocky Mtn Radio League ORZ

TWO-METER TRACKING SYSTEM KEEPS TABS ON 94D Another summer has passed and the Pikes Peak Motorcycle Ridedr Association held its fall enduro with the PPRAA amateurs again providing communication at the starting line, finish, and at every checkpoint. Our very own President Ray AAØL was a contestant, much to the joy (enjoyment) of the members. Ray, with new nicknames based on his cycling endeavor, donned the racing number 94D and proceeded to ride the 110-mile course. Ray also added excitement for the 14 hams providing communication in the form of "Will he or won't he?" Well, he did! (finish, that is).

The communications system was headed up by the net control station at the gas stop, peopled by the Green Mtn Falls Radio Society--Dick WB@PNX, Lorna WD@BTF, Kim WB@UUW, and Susie WD@FXR. Another busy spot was the starting point, the rodeo grounds in Woodland Park, where Chuck W@RNT was liaison to the enduro officials, coordinating the broken bikes and emergency communications. Mark WB@TLQ had his hands full with his ten-watt walking station complete with large batteries, antenna, and rig, and provided comm with checkpoint one at the start of the day and eight until all riders had finished.

Dennis WBØYKH manned checkpoint two. Here was one of the busier spots due to the rider's broken leg (see MAST article), and one of the more entertaining, since Dennis was the first ham to see the riders after their bout with "Mudhole Number One." Doug WBØMHP was at checkpoint three with two meters and a PA system. Since that checkpoint was the tie-breaker, each rider's time had to be recorded and the PA system made this possible as the cyclists roared through. Mike KØTER, with strong batteries and strong feet manned the inaccesible ckeckpoint four, after having also put up the HQ antenna at the rodeo grounds.

Checkpoint five was handled by Dave WBØSDW and XYL Dona KAØAFU, taking care of a rider with a broken shoulder. Jerry WBØHZG and Carl WBØYEO were on hand at checkpoint six. Al WBØILL (now ADØ?) was at sheckpoint seven, where part of his task was to confirm that each rider had passed through "Mud Hole Number Two." The riders, however, showed ample evidence of this and the real job was identifying them. Gordy WBØTIC was on hand providing his expert first aid knowledge, and Hal WBØRER was also on hand, helping with the MAST rescue.

The whole comm system was headed by Dave NODV, a member of both the PPRAA and PPMRA. He said this year's enduro was better than last year's, and next year's will be better yet [maybe they're going to add another mud hole?]. And as for 94D, he will "ride again."

Doug Moloney WBØMHP

TWO RFI BOOKLETS written for technicians are being offered free by the EIA. The TVI booklet is 40 pages and one on audio rectification is 14 pages. Send requests to the Consumer Electronics Group EIA, 2001 Eye St NW, Washington, DC 20006.

fm HR Report via Boulder QSP

SWAP FEST OCT 15

OF COLO. SPRINGS

PLACE - NATIONAL GUARD ARMORY

I-25 AT FILLMORE ST.

WILSON MIGHT 2 METER H.T. MANY OTHER PRIZES TALK IN .63/.03

TALK IN .63/.03

SELLING SPACE SIOD DONATION

DOOR PRIZE TICKETS-

	x		SECOND EDITION of the COLO)R	ADO AREA REPEATER DI	RECTORY	
	146.010/146.610		146.250/146.850				
	BoulderWRDAGH		GreeleyWRØADD		147.720/147.12 Cheyenne, WY		
	Vail PeakWBØSHR		Clayton, NMWR5AJB		Aurora	WRAASE	
	LamarWRØAKG		Sidney, NEWRWAMX	1	-1		29.560/29.660
	146 025/146 605		Farmington, NMWR5AJR		- 147.735/147.13	15	Boulder WRØADA
	146.025/146.625 Ft CollinsWRDAPA		145 GERMAN DER	m	Colorado Spgs	WDØF00	
	TO THE STATE OF TH		146.265/146.865		142 3504143 10		
	146.040/146.640				147.750/147.15 Guy Hill	UDBATU	
	DenverWRØACM		146.280/146.880		day sillivers	MKDATA	FA 170/F2 170
	Cheyenne, WYWR7ACZ		DenverWRØACL		147.765/147.16	5	52.170/53.170 Colorado SpgsWRØAOM
	Kimball, NE WRØAEA		Laramie Peak, WYWR7AHT				objected spgswkphom
	Grand Junction WRØAFC		BeaulahWRØAJR		10.00		
	South ForkWRØAHP SpringfieldWRØAMH		DurangoWRPAME		147.780/147.18	0	225
	op. mg. rejativiti		145.295/146.895		Boulder	WROAFH	
	146.055/146.655		140.233/140.033	T*	Colorado Spgs	MEDKLF	222.340/223.940
					147.795/147.19	E.	AURORA-RMRLWRØAOP
			146.310/146.910		****************	2	222.420/224.020
	146.070/146.670		GUY HILL-RMRLKØESG	ĸ,			Boulder WRØADA
	DenverWRØADO		SterlingWRØAPJ		147.810/147.21	0	DOUISC:
7	McCook, NE WRDALY		Garden City, KS WRDAJE		Denver	WROAGL	223.020/224.620
	Glenwood SpgsWRØANT DurangoWRØAOA		Craig prop		Steamboat Spgs	prop	BoulderWRØAFH
	purango		Gunnison prop		Grand Junction	prop	
	146.085/146.685		146.325/146.925		147 000/147 00	-	223.260/224.860
	- 10,000, 1,0,000		140.023/140.323		147.825/147.22	5	BoulderWRBAQK
							223,300/224,900
	146.100/146.700		146.340/146.940		147.840/147.24	0	AuroraWRØAQS
	BoulderWRØAQK		SQUAW MTN-RMRL WRBABF		Denver	WRØADK	rai oi a casta tata tanpriga
	La JuntaWØOII		Rapid City, SD WRØABL		Ft Morgan	WBØIBS	223.340/224.940
	146.115/146.715		Norton, KSWRØACW Grand JunctionWRØACY		147 000 1040 00	_	Ft Collins WROAPA
	140.115/140.715		Scottsbluff, NEWRØACZ		147.855/147.25	5	
			Laramie, WYWR7ADK		Arvada	WKDANW	
	146 . 130/146 . 730		PuebloWR@ADR		• 147.870/147.27	ó	
	BoulderWRØADA		Rock Spgs, WY WR7AJT		Longmont	WROAHG	
	WalsenburgWRØARW		- 10		Colorado Spgs	WRØAKZ	
	146 14E /146 74E		146.355/146.955				439.250/427.250
	146.145/146.745				147.885/147.28	5	BoulderWRDADA
			146.370/146.970				428 900 4444 944
	-146.160/146.760	٠,	Colorado SpgsWRØARG		147.900/147.30	6	443.500/448.500
	Boulder WRØADA	-	and appointment		Denver-RACES	UDALADM	DenverWRØADO
	Ogallala, NEWRØADL		146.385/146.985		Pelise - 18/0001: 12/11	ויום אמיוא	444.200/449.200
	Colorado SpgsWRØARI		BoulderWRDAHF			7	Squaw Mtn-RTTYWRØACX
	Brewster, KSWRØAHB Lead, SDWRØAHM				147.915/147.31	5	
	DeltaWRDART		146.400/147.000		Ft Collins	WBØSAY	444.350/449.350
	Rawlins, WYWR7AIE		Roosevelt, UTWR7AJE		147 020 (147 22		Squaw MtnWRØADI
	Elkhart, KS WRMAJB				147.930/147.33 Denver	UDBANI	444 4504440 450
	Kimball, NEWRØAEA		147.600/147.000		Lusk, WY	WRDAMU WR7AOX	444.450/449.450 SQUAW MTN-RMRLWRØABG
	FarmingtonWR5AJR		Greeley			MINTAUA	SOOM MIN-KINC MKBADO
	Moab, UTK7QEQ		DurangoWRØAOY				444.550/449.550
	San Antonio Pk. NM.WRSACE				147.945/147.34		BoulderWRØADA
	146.175/146.775		147.615/147:015		Colorado Spgs	WRØAPP	All the same of the later
			Denver WRDARS		****		444.600/449.600
					147.960/147.36	0	DenyerWRØACM
	146.190/146.790				Denver	WKWAJU	
	Black Forest-RTTYWRØAGN		147.630/147.030				
	WrayWRDAMC	\mathbb{H}^{n}	Colorado SpgsWRØAIA		147.975/147.37	5	
	DITTOR WKWAMI		BoulderWRØAJG		Denver	WRØALS	
	146.205/146.805		147.645/147.045				
	AuroraKØESG		NorthglennKDML		147 000/147 20	^	dis-
			and a series of the series of		147.990/147.39 Boulder	U WDGADA	
	146.220/146.820		147.660/147.060		Colorado Spgs	MD MADV	
	Canon CityWRØADN		GreeleyWR#AEN		and and aireit	PUPANA	×
	Laramie, WYWR7ADP		Colorado SpgsWRØAPR				
	Colby, KSWRØAGS	•	Limon/GenoaWADDGJ				
	Grand JunctionWRØARX Custer, SDWRØAHM		Satana, KSWB90IE		· Al	1 con	rections or additions
	Granbyprop		147.675/147.075				e addressed to:
			+11 +41 4/ 47/ 10/ 3		Ģ.		Januar W;
	146,235/146.835				OTNY TO: RO	CKY M	DUNTAIN RADIO LEAGUE
			147 0007147 600		V. INC.	CARLS I INTO	VONTAIN NADIO LEAGUE

ORZ

147.090/147.690

6359 South Fenton Court Littleton, Colorado 80123

			Moab 1 6/76		Grand Junction		Roosevelt 40/00		
N	Farmington 16/76 25/85	Durango 07/67 28/88 . 60/00	GP.		© Glenwood 07/67		r _L	RMRL - September, 19	Rock Springs 34/94
04/64 34/94 07/67 615/015 205/805 645/045 28/88 09/69 31/91 72/12	*	. South Fork 04/64	r ·	01/61	ood Springs ■ Vail	Boulds 01/61 10/70	021 221	1978	Rawlins 16/76 Laramie 22/82 28/88 34/94
75/15 93/33 81/21 96/36 84/24 975/375 855/255 90/30	San Antonio Pk 16/76 DENVER	Pueblo 28/88 34/94		19/79 🚁 💆	78/18 99/39 📉	Boulder 87/27 87/27 87/27 87/27 01/61 385/985 10/70 63/03	ins .		Cheyenne 04/64 72/12
	Clayton 25/85	Walsenburg Spring 13/73	19/79 /0/10 37/97 87/27 63/03 945/345 66/06 99/39	ado 7	Denver * Mar Limon 66/06	ont III Ft Morgan 84/24	Greeley S 5 66/06 3		Kimball 04/64
Marillo 34/94		Lamar 01/61 34/94 Springfield Elkhart 04/64 16/76		16/76		an 19/79	Sterling 31/91		Sidney ■ Ogallala 25/85 ■ 16/76
1 .	■ Beaver 66/06	■ Garden City 31/91 Part	r de s	22/82 OR		-	e ji	North Platte 34/94	

NEW FORMAT FOR THE .52 NET: Bruce WBØOFC has written a new format for the Wednesday evening PPRAA net on 146.52. I would like to express my thanks to Bruce, and to print it here in Zero Beat so we will all have a copy for our own use when we take net control.

The format goes: "QST, QST, QST, this is call calling the Pikes Peak Radio Amateur Association Net. My name , and I'm locate , beaming This net meets most Wednesday

evenings on 146.52 MHz FM, 1900 Hours local time. The only exception is the second Wednesday of the month when the Pikes Peak Radio Amateur Association holds its monthly meeting at Security

If it's CW, it's communications. 893-5525 ALL MAJOR BRANDS 893-5525 SALES · SERVICE 8-5:30 Mon.- Fri. 8:30-1 Sat. John WAGADV Glenn WAGADV 1401 BLAKE STREET, DENVER, COLORADO 80202

Savings and Loan Building, at Platte and Union, Colorado Springs at 1930 hours local time. The montly meeting is open to all amateurs and a hearty welcome is hereby extended. All stations are invited to check in and participate in the functions of this net. No club affiliation is required or expected. Although this is a directed net, the operation will be informal and no previous net experience is required. The net will follow the following format: First, emergency traffic; Second, mobile checkins; Third, stations outside of the Colorado Springs/ Pueblo area; Fourth, general checkins; Fifth, announcements; Sixth, formal traffic; Seventh, comments. .nformal traffic may be listed for after the net closure. When checking in, please give your name and location and list any traffic. This is call net control for the Pikes Peak Radio Amateur Association Net, standing by Emergency traffic (pause); any relays (pause); Mobile checkins (pause); any relays (pause); Stations outside the Colorado Springs/Pueblo area (pause); any relays (pause); General checkins Alfa through Charlie; relays;



Communications Division

Delta through Foxtrot; relays; Golf through India; relays; Juliet through Lima; relays; Mike through Oscar; relays; Papa through Romeo; relays; Sierra through Uniform; relays; Victor through Zulu; relays; late checkins; relays." Then run announcements formal traffic, and comments. call closing the Pikes Peak Radio Amateur Association Net at This evening there were local time. checkins. Thank you. This is call clear."

Doug Moloney WBØMHP

THEN THERE ARE NETS that take all of this long to get into full swing: "CQ TWN, TWELFTH REGION NET, TWN, QND, QNN WBØ---, TWN STN FM PAN K" I guess one should try both kinds. TAQi

SB-104 OWNERS: A modification kit is available for a crowbar circuit for the Heathkit Power Supply HP-1144 as used with the SB-104 and HW-104. Best of all, there may be no charge. Request it direct from Heath at Benton Harbor, Mich. Without the kit, overvoltage can destroy up to 55 semiconductors! TNX to Dave Ernest WD80YO in Lake Erie ARA newsletter

TOUCHTONE TIP: On some radios, TT encoders will not operate a system. This could be due to a small-value capacitor on the audio input to the rig that passes the high tones but attenuates the lower tones because of too little low-frequency response. If a .001 or .0033 (for example) is used at the input, try a .1 uF. If that isn't practical, inject the TT output directly into the audio stage input. TNX AGN Lake Erie ARA

TRY IT, you'll like it. But make sure it's good for you too.

BCNU. TAOii



ELECTRONIC SUPPLY

715 N. Weber Street
P.O. Box 1777, Colorado Springs, Colo 80901
Phone: 633-4066

Wholesale Radio, TV, Party, Tuhre, Batteries Industrial Electronies, Test Equipment

Now Handling Alliance Heavy Duty Rotors--Lower Prices Than CD 1978 Amateurs Handbook at \$6.50 (Save \$2.00)

AUTHORIZED TO DISTRIBUT

ZERO BEAT Dave Allen 821 N. Cascade Colo. Springs, CO 80903

FIRST CLASS MAI

DON SCHAARSCHMIDT WØOTZ STEVE SCHAARSCHMIDT KØCI 2208 E. GREENWICH CIR COLO SPGS, CO 80909

न्भागधि । सार्वाभाग